

The Temperature's Rising!

A Town Hall Meeting on Solutions to the Global Warming Crisis
April 14, 2007 to the Global Berkeley City College Auditorium
Assemblymember Loni Hancock



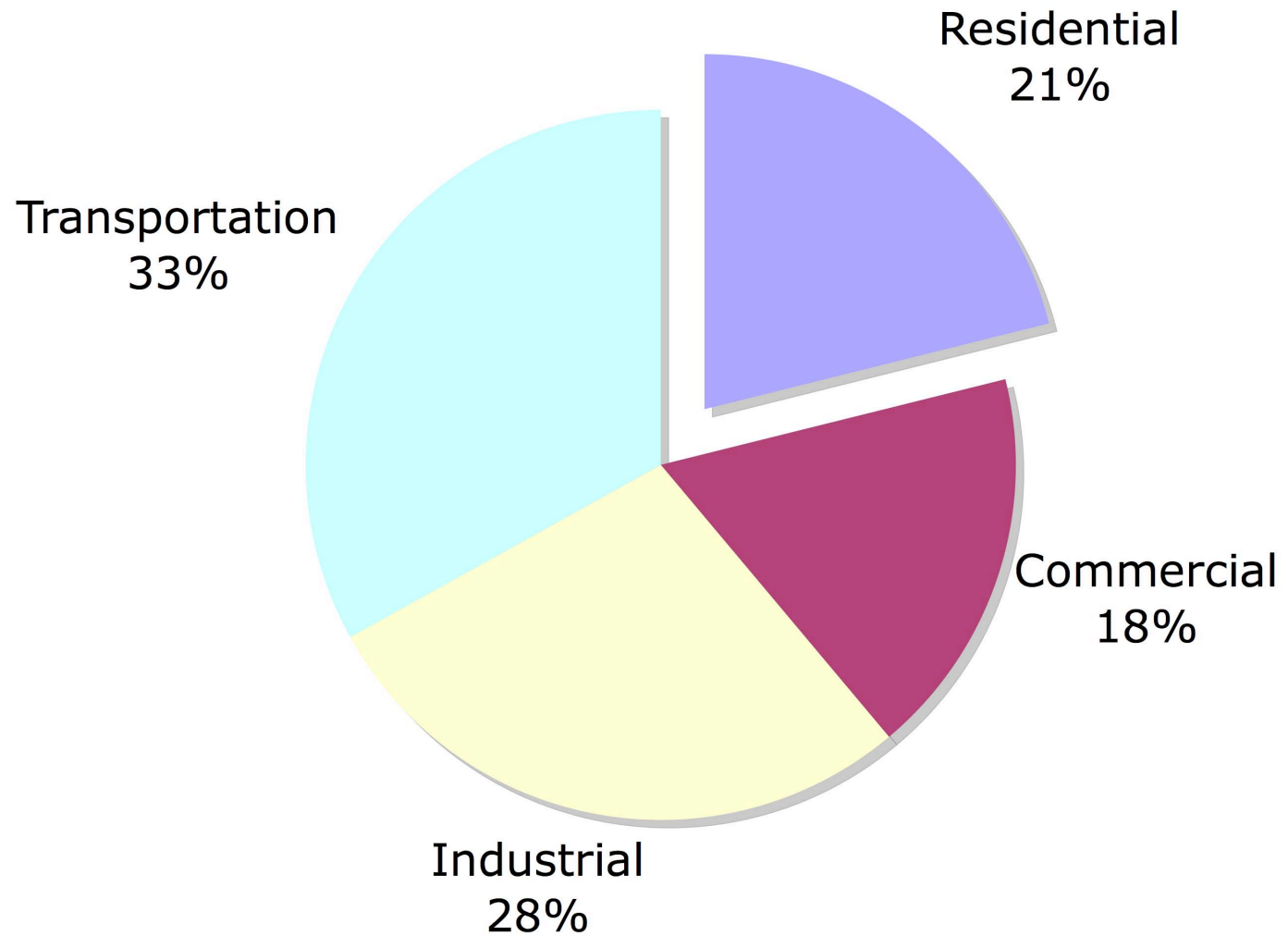
Bringing it all back home:

What can individuals do to
affect climate change

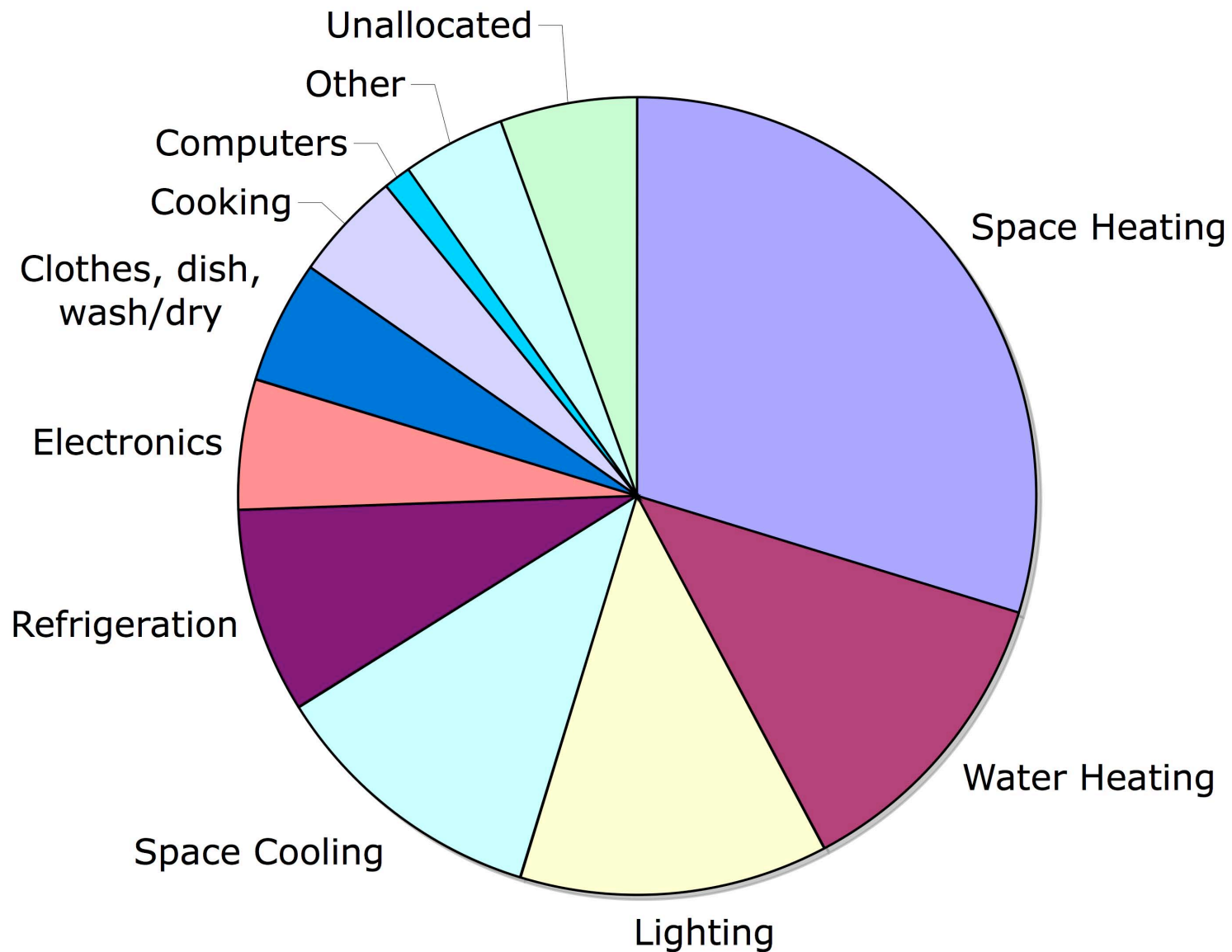
**Evan Mills, Ph.D., Staff Scientist
Lawrence Berkeley National Laboratory**

US Carbon Dioxide Emissions: 2005

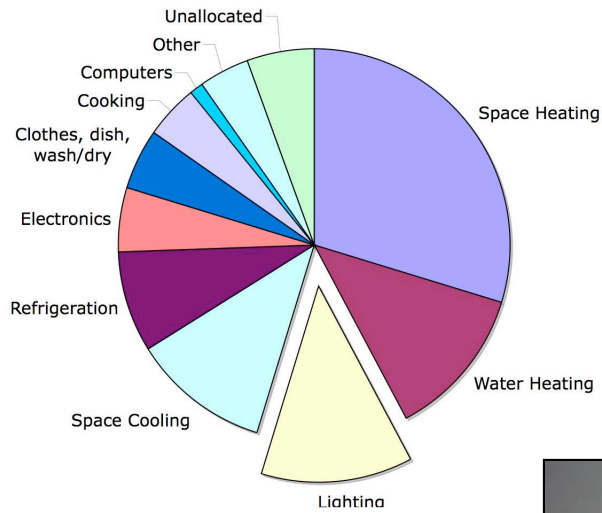
1.6 billion Tonnes Carbon



Carbon Footprint of US Homes, 2005: 329MT



Carbon Footprint of US Homes, 2005: 329MT

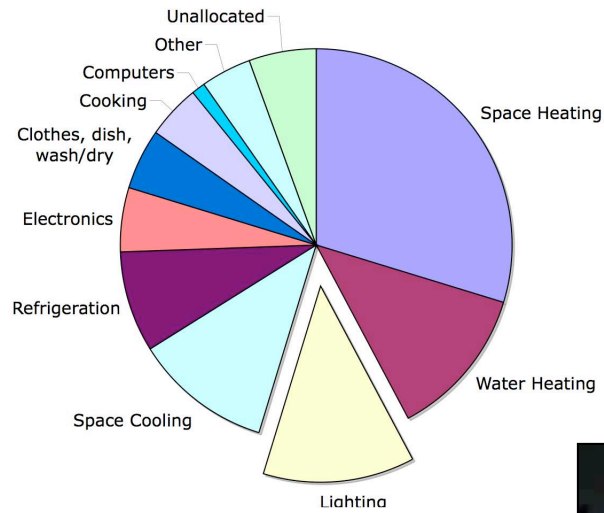


Compact Fluorescent Lights (“CFLs”)

**41 million tons carbon/year
[12% of total]**



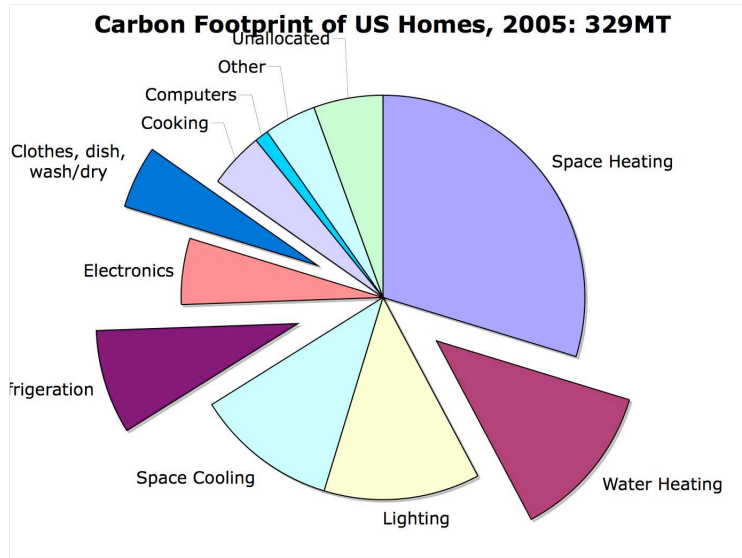
Carbon Footprint of US Homes, 2005: 329MT



Dimmable“Linear” Fluorescent Lights

**41 million tons carbon/year
[12% of total]**



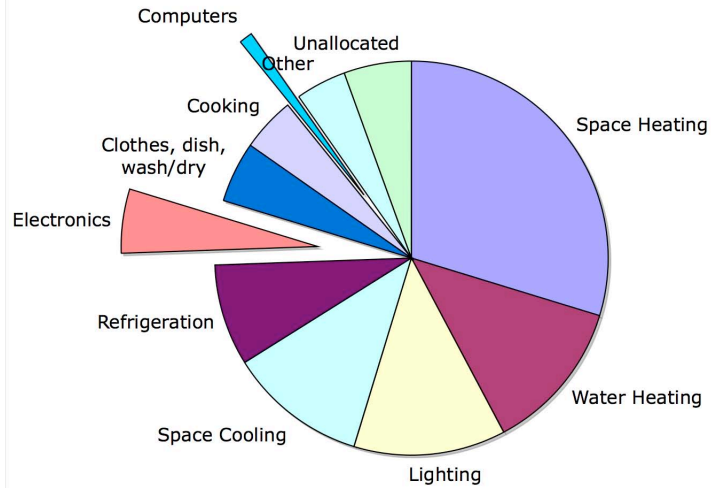


Efficient Appliances

100 million tons carbon/year
[30% of total]



Carbon Footprint of US Homes, 2005: 329MT

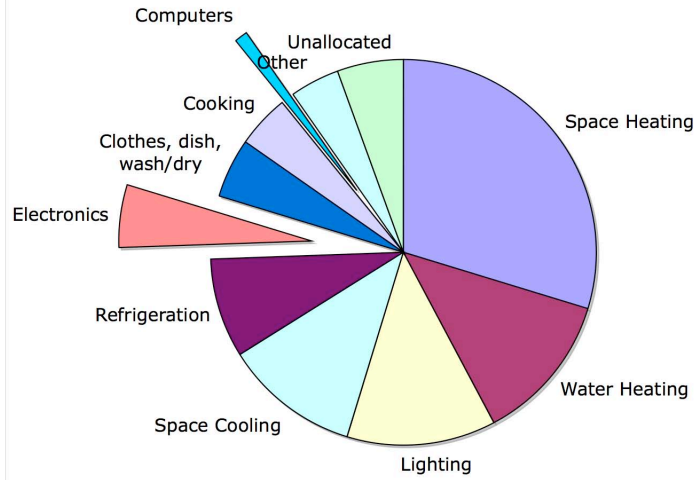


EnergyStar Home Electronics

17 million tons carbon/year
[5% of total]

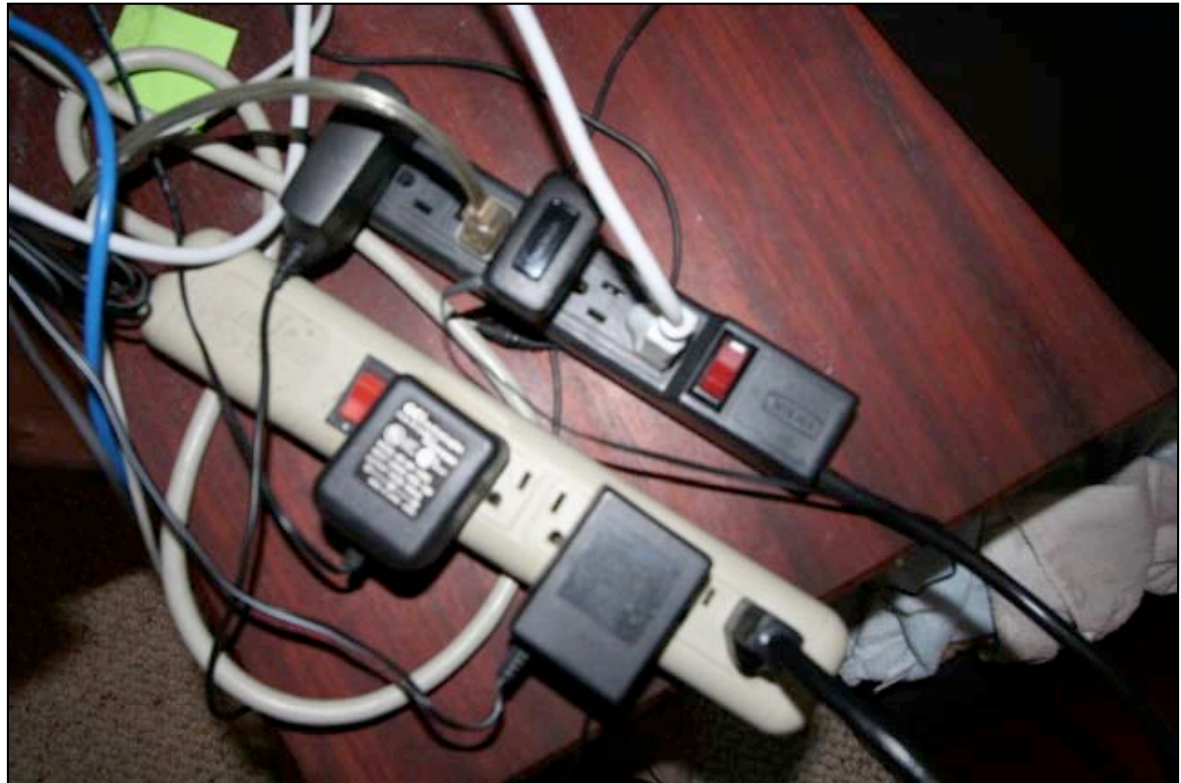


Carbon Footprint of US Homes, 2005: 329MT

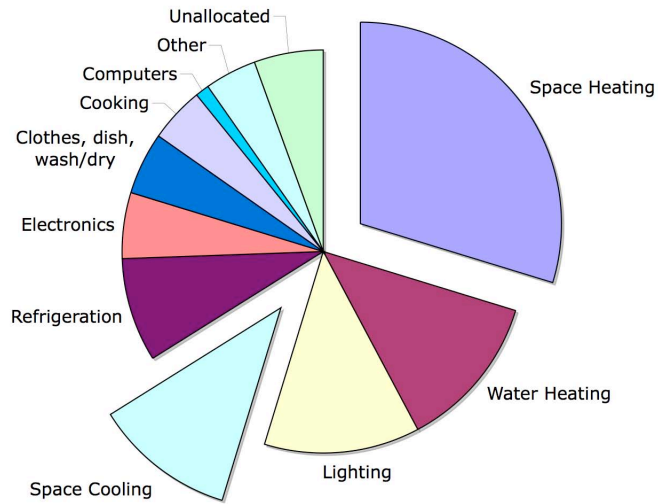


Kill the Vampires

**17 million tons carbon/year
[5% of total]**



Carbon Footprint of US Homes, 2005: 329MT

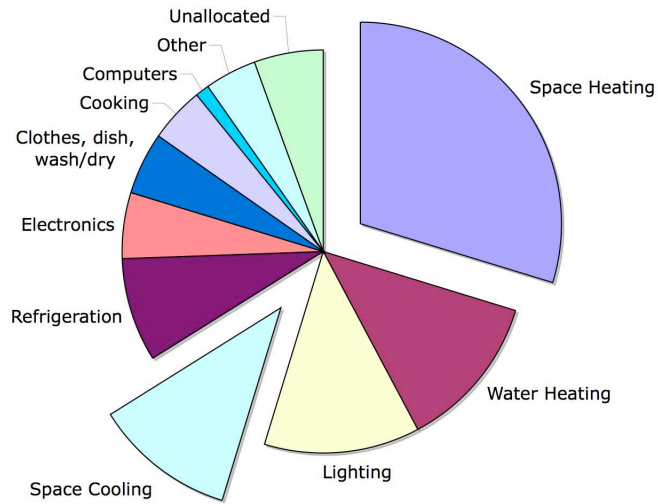


“Low-e” Windows & Skylights

**136 million tons carbon/year
[41% of total]**



Carbon Footprint of US Homes, 2005: 329MT



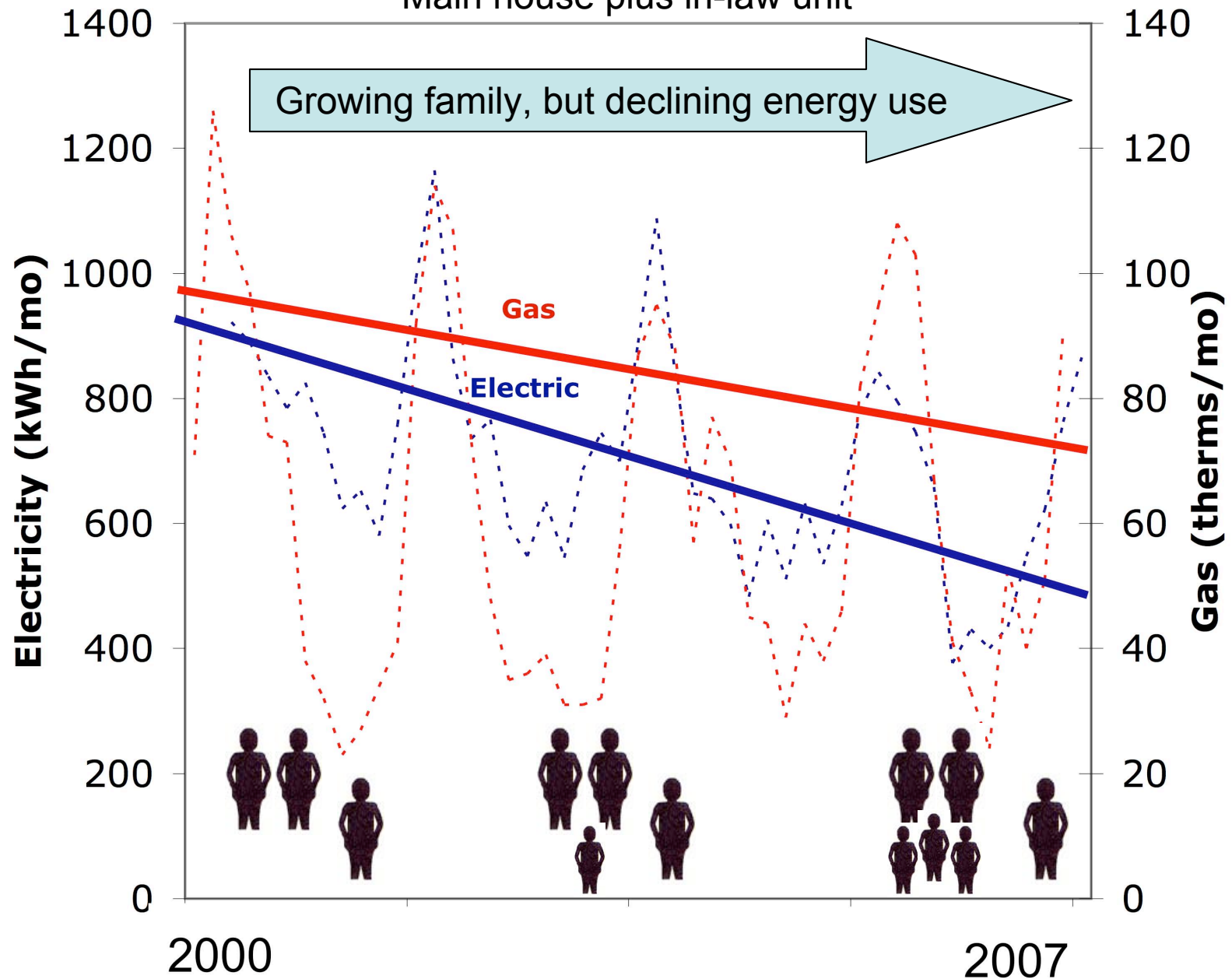
Insulated/Sealed Ductwork

136 million tons carbon/year
[41% of total]



Our Home's Monthly Energy Consumption History

Main house plus in-law unit



Time-of-Use (TOU) Electricity Tariff

*Advanced digital
metering - logs
electricity use by
time of day and
year*

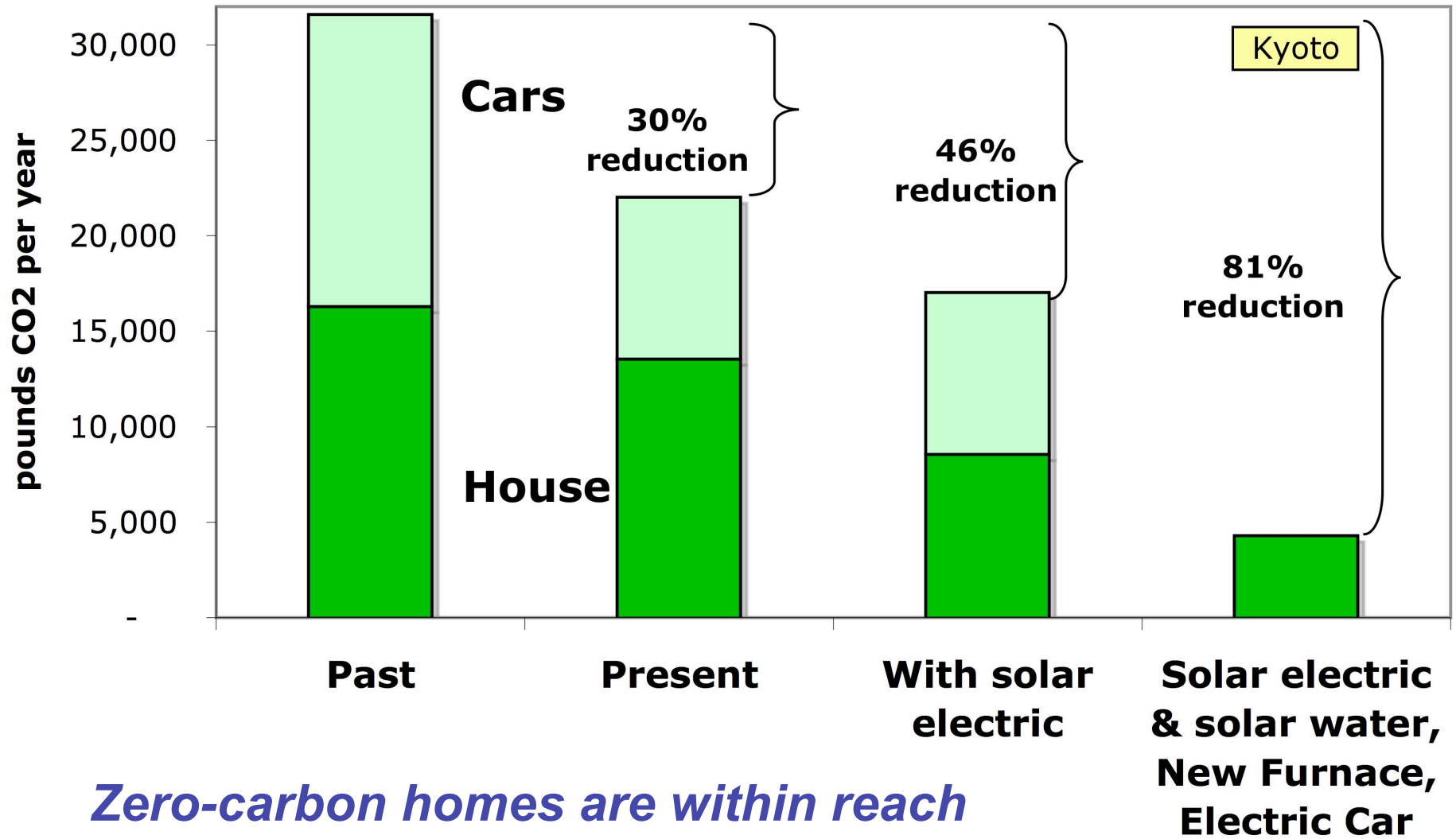
*Encourages use of
electricity during
off-peak periods;
maximizes
payments for solar-
generated
electricity sold
back to grid*



Improved vehicle fuel efficiency [3x savings vs prior vehicle]



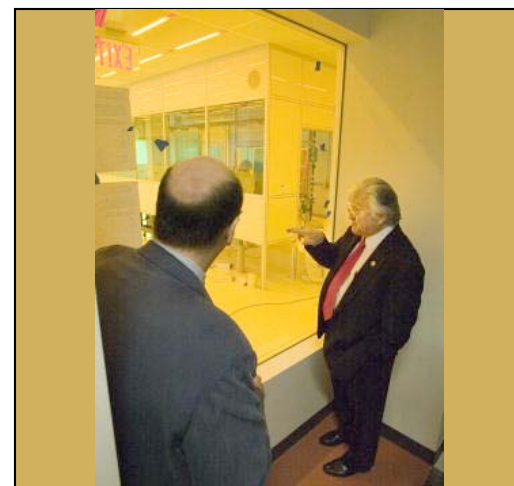
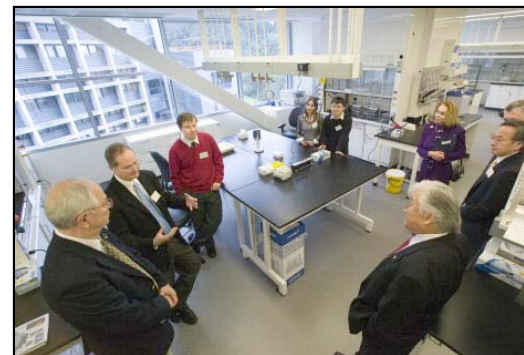
Greenhouse Gas Reductions at Our House (main house + in-law unit)

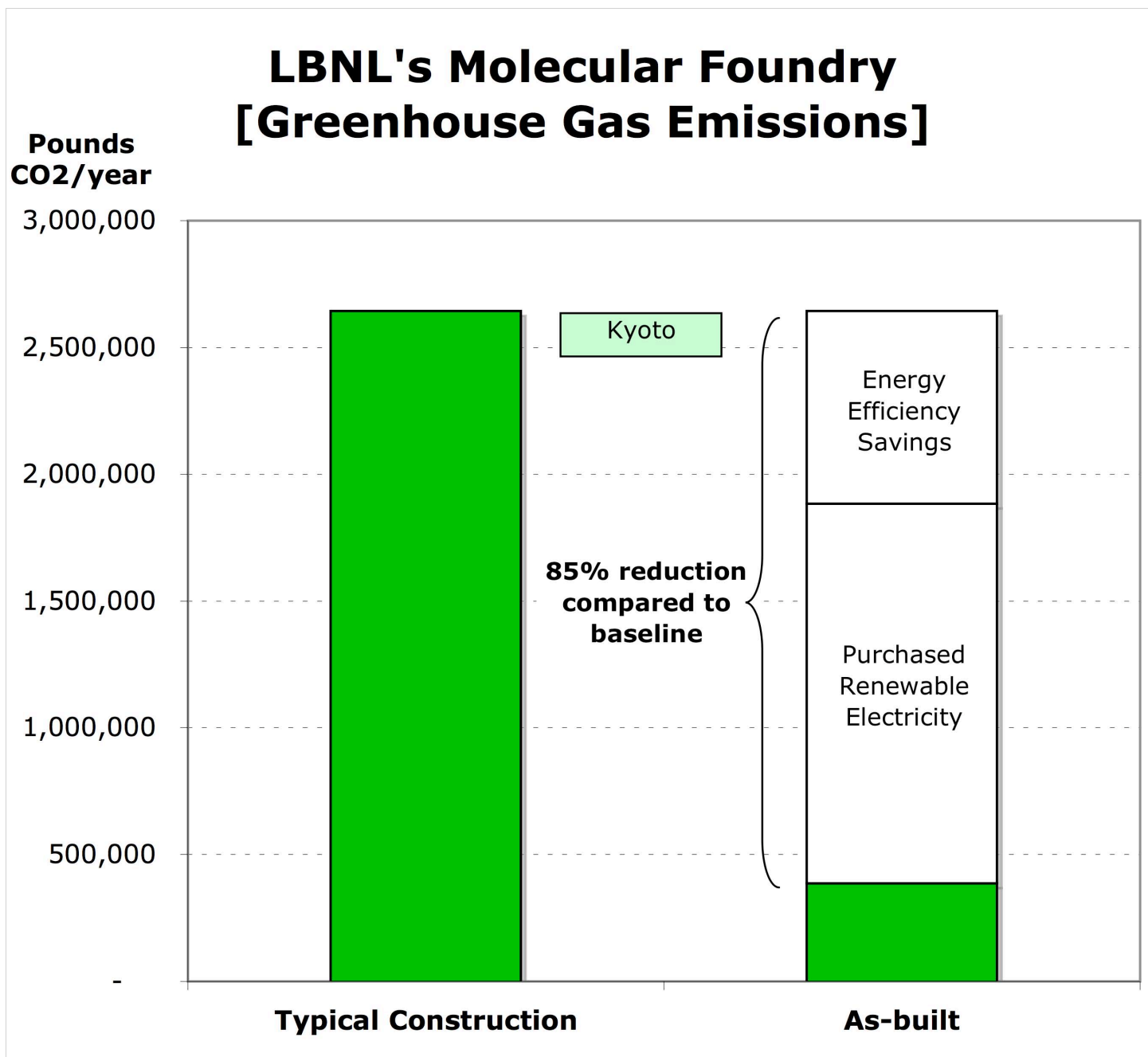


Other things...

- Roof insulation
- Telecommuting - 50% time
- Composting and recycling (reduced methane from landfill)
- Emphasize organic & locally produced foods

The Molecular Foundry - High-tech can be green





http://HomeEnergySaver.lbl.gov

The Home Energy Saver - Mozilla

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The first web-based do-it-yourself energy audit tool

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Save \$\$\$ Find out more about the profitability of energy efficiency upgrades

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Investing in a home on your street could be more profitable than investing on Wall Street.

MAKING IT HAPPEN
Find resources to make your home more energy efficient.

Money isn't all you save. Visit the ENERGY STAR website for information on energy-efficient products.

Developed by the Environmental Energy Technologies Division at the Lawrence Berkeley National Laboratory

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Find the best ways to save energy in YOUR home!

Enter your zip code 94720 Enter previous session #

Go!

Don't know the zip code?

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General Info Heating & Cooling Water Heating Major Appliances Small Appliances Lighting

Session ID: 566483
Zipcode: 92549
Location: Idyllwild, California

Initial Results: Your Energy Bill (\$/year)

Existing Home \$1340
with Selected Upgrades \$759

	Heating	Cooling	Water Heating	Major Appliances	Lighting	Small Appliances
Existing Home	\$ 411	\$ 9	\$ 182	\$ 429	\$ 152	\$ 157
With Selected Upgrades	\$ 169	\$ 9	\$ 100	\$ 233	\$ 91	\$ 157

Instructions | Existing Home Configuration: View | Change

View or Modify Upgrade Details View Upgrade Report

Selected Upgrade Package for your Home

Upgrades Requiring Investment

1. Thermostat
2. Electric clothes dryer
3. Indoor lights
4. Dishwasher
5. Gas water heater
6. Clothes washer
7. Duct Sealing
8. Refrigerator
9. Wall insulation
10. Air sealing
11. Windows
12. Gas furnace
13. Attic insulation
14. Slab insulation
15. Ceiling fan
16. Duct Insulation
17. Cool roof

Comparing Results to your Utility Bill | See typical costs of running various appliances

Potential Annual Savings

Money:	\$581
Energy:	2,271 kWh & 302 Therms
CO ₂ Emissions:	3,921 lb. CO ₂

More detail on energy and CO₂ emissions...